## "VERSION WITH MARKINGS TO SHOW CHANGES MADE"

Claims 3-21 have been amended as follows:

- 3. (Amended) The welding process as claimed in either of claims claim 1 and 2, wherein the shielding atmosphere is formed by a gas mixture consisting of argon with a content greater than or equal to 70% by volume and of at least one additional compound chosen from  $H_2$ ,  $O_2$ ,  $CO_2$  and  $N_7$  with a content of 0.1 to 30% by volume, preferably a gas mixture consisting of argon with a content greater than or equal to 70% by volume and of 0.1 to 30% by volume of an additional compound chosen from  $H_2$ ,  $O_2$ ,  $CO_2$  and  $N_2$ .
- 4. (Amended) The welding process as claimed in one of claimsclaim 1—to 3, wherein the shielding atmosphere is formed by a gas mixture consisting of argon with a content greater than or equal to 70% by volume and of 0.1 to 30% by volume of several additional compounds chosen from  $H_2$ ,  $O_2$ ,  $CO_2$  and  $N_2$ , preferably a mixture of argon,  $O_2$  and  $CO_2$ .
- 5.(Amended) The welding process as claimed in either of claims claim 1—and 2, wherein the shielding atmosphere is formed by a gas mixture consisting of helium with a content greater than or equal to 70% by volume and of at least one additional compound chosen from  $H_2$ ,  $O_2$ ,  $CO_2$  and  $N_2$  with a content of 0.1 to 30% by volume, preferably a gas mixture

consisting of helium with a content greater than or equal to 70% by volume and of 0.1 to 30% by volume of an additional compound chosen from  $H_2$ ,  $O_2$ ,  $CO_2$  and  $N_2$ .

- 6. (Amended) The welding process as claimed in one of claims claim 1, 2 or 5, wherein the shielding atmosphere is formed by a gas mixture consisting of helium with a content greater than or equal to 70% by volume and of 0.1 to 30% by volume of several additional compounds chosen from  $H_2$ ,  $O_2$ ,  $CO_2$  and  $O_2$ , preferably a mixture of helium, 02 and  $O_2$  and furthermore possibly containing  $O_2$ .
- $7. \, ({\sf Amended})$  The welding process as claimed in one of claimsclaim 1—to 6, wherein the shielding atmosphere is formed by a gas mixture consisting of at least 70% by volume of helium and argon and of 0.1 to 30% by volume of at least one additional compound chosen from  $H_2$ ,  $O_2$ ,  $CO_2$  and  $N_2$ , preferably a gas mixture consisting of 0.1% to 69.9% by volume of helium, of 0.1% to 69.9% by volume of argon and of 0.1 to 30% by volume of at least one additional compound chosen from  $H_2$ ,  $O_2$ ,  $CO_2$  and  $N_2$ , the sum of the argon and helium contents being at least 70% of the total volume of the mixture.
- 8. (Amended) The welding process as claimed in  $\frac{1}{1}$  of claims claim 1 to 7, wherein the workpiece or workpieces to be welded are made of a metal or a metal alloy chosen from

coated or uncoated steels, particularly assembly steels, HLES steels, carbon steels, steels having a layer of zinc alloy on the surface, stainless steels, aluminum or aluminum alloys and high yield point steels.

- 9. (Amended) The welding process as claimed in one of claims claim 1—to  $\theta$ , wherein the shielding atmosphere is formed by a gas mixture consisting of at least 70% by volume of helium and/or argon and of 0.1 to 30% by volume of at least one additional compound chosen from  $O_2$  and  $CO_2$  and wherein the workpiece or workpieces to be welded are made of steel, especially carbon steel.
- 10. (Amended) The welding process as claimed in one of claims claim 1—to 8, wherein the shielding atmosphere is formed by a gas mixture consisting of at least 70% by volume of helium, of 0.1 to 30% by volume of hydrogen and of 0 to 29.9% by volume of at least one additional compound chosen from  $O_2$  and  $CO_2$ , and wherein the workpiece or workpieces to be welded are made of stainless steel.
- 11. (Amended) The welding process as claimed in one of claims claim 1—to 8, wherein the shielding atmosphere is formed by a gas mixture consisting of at least 90% by volume of helium or of argon and of 0.1 to 10% by volume of at least one additional compound chosen from  $O_2$  and  $CO_2$ , and wherein the

workpiece or workpieces to be welded are made of aluminum, preferably of at least 96% by volume of helium or argon and of 0.1 to 4% by volume of at least one additional compound chosen from  $O_2$  and  $CO_2$ .

- 12.(Amended) The welding process as claimed in one of claims claim 1—to 8, wherein the shielding atmosphere is formed by a gas mixture consisting of at least 85% by volume of helium or of argon and of 0.1 to 15% by volume of  $H_2$ , and wherein the workpiece or workpieces to be welded are made of stainless steel, preferably of at least 90% by volume of helium or argon and of 0.1 to 10% by volume of  $H_2$ .
- 13. (Amended) The welding process as claimed in one of claimsclaim 1 to  $\theta$ , wherein the shielding atmosphere is formed by a gas mixture consisting of at least 70% by volume of helium and/or argon and of 0.1 to 30% by volume of  $N_2$ , and wherein the workpiece or workpieces to be welded are made of steel, preferably of at least 80% by volume of helium and/or argon and the balance being  $N_2$ .
- 14. (Amended) The welding process as claimed in one of claims claim 1—to 8, wherein the shielding atmosphere is formed by a gas mixture consisting of at least 85% by volume of helium and/or argon and of 0.1 to 15% by volume of  $H_2$  and

 ${\rm CO}_2$ , and wherein the workpiece or workpieces to be welded are made of stainless steel.

- The welding process as claimed in one of claims claim 1—to 14, wherein the laser beam is emitted by an Nd:YAG or  $CO_2$  laser and/or wherein the electric arc is a plasma arc.
- 16. (Amended) The welding process as claimed in one of claims claim 1 to 15, wherein the electric arc is delivered by a plasma-arc torch and preferably the laser beam and said arc are delivered by a single welding head.
- The welding process as claimed in  $\frac{1}{1}$  of claims claim  $\frac{1}{1}$  to  $\frac{1}{1}$ , wherein the electrode is consumable or not consumable.
- 18.(Amended) Use of a welding process as claimed in one of claimsclaim 1 to 17 for welding at least one tailored blank intended to constitute at least one part of a vehicle body element.
- 19.(Amended) Use of a welding process as claimed in  $\frac{1}{1}$  in  $\frac{1}{1}$  for joining together, by

welding, metal workpieces having different thicknesses, particularly tailored blanks.

- 20.(Amended) Use of a welding process as claimed in one of claimsclaim 1 to 17 for joining together, by welding, metal workpieces having the same or different thicknesses and having different metallurgical compositions or metallurgical grades, particularly tailored blanks.
- 21. (Amended) Use of a welding process as claim  $\frac{1}{100}$  claims claim 1  $\frac{1}{100}$  for joining together, by welding, the two longitudinal edges of a pre-tube.